

# Vitronic Water F

Water cooled water chillers and heat pump units with semihermetic screw compressors.



## Unit description

- Compressor screw semihermetic type R134a.
- Evaporator thermally insulated shell and tube type with differential pressure switch and antifreeze protection electric heater.
- Condenser shell and tube type with differential pressure switch.
- De-superheater shell and tube type (setting up D).
- Total heat recovery shell and tube type (setting up R).
- Microprocessor control system by Thermologic.
- Supporting structure in galvanised steel with powder paint anti-corrosive (RAL 9007).

## Versions

VC water cooled packaged water chillers

VH water cooled packaged water chillers for heat pump operation by reversing the water supply from the condenser and evaporator to the plant

VME condenserless units to be connected to remove condenser

## Acoustic applications

SLN : Super Low Noise setting-up with insulated compressors housing that allow a noise power level reduction of 3 dB(A).

## Accessories mounted in factory:

- Additional unloading steps;
- Power factor correction;
- Over/under voltage + phase failure protection relay;
- Compressors overload protection;
- Ground fault protection;
- Liquid receivers (for condenserless ME units only);
- Condenser Cu/Ni 90/10;
- Compressor sound absorption enclosures;
- Control panel electric heater with thermostat;
- Electronic expansion valve;
- Soft start;
- Automatic switches for compressors;
- Clock card;
- Ammeter and voltmeter;
- Over/under voltage + phase failure relay;
- Star/Delta compressor starting.

## Data referred to:

**COOLING:** evaporator water temperature in/out 12/7°C - condenser water temperature in/out 30/35°C.

**HEATING:** evaporator water temperature in/out 15/10°C - condenser water temperature in/out 40/45°C.

## Accessories supplied loose:

- Remote control display (Thermologic);
- Network control through a local PC with dedicated software (as additional accessory) under Windows by serial output RS 232;
- Network control through a remote PC with dedicated software (as additional accessory) under Windows by gateway and modem;
- Connection to BMS control by serial output RS 232, gateway and protocol MOD-BUS;
- Flow switch;
- Water strainer;
- Rubber anti-vibration set;
- Spring anti-vibration set.

## DIMENSIONS AND WEIGHTS

Sizes	Length mm	Width mm	Height mm	Kg
1210V	3370	850	1470	1920
1270V	3370	850	1530	2200
1310V	3370	850	1550	2400
1360V	3460	900	1680	2670
1390V	3560	950	1680	2720
2260V	3520	850	1850	2400
2280V	3560	850	1900	2715
2310V	3560	850	1930	2760
2330V	3920	850	1950	2890
2340V	3920	850	1950	2940
2380V	3920	850	2000	3250
2420V	3920	850	2000	3410
2480V	3920	850	2150	3650
2540V	4045	1200	2150	4010
2610V	4045	1200	2150	4150
2670V	4045	1200	2150	4410
2720V	4045	1200	2200	4766
2770V	4045	1200	2240	5080

Sizes	1210V	1270V	1310V	1360V	1390V	2260V	2280V	2310V	2330V	2340V	2380V	2420V	2480V	2540V	2610V	2670V	2720V	2770V	
<b>C</b> Cooling Capacity	kW	205	251	304	342	366	255	272	307	323	339	375	411	462	502	621	653	685	731
Compressors input	kW	51	56,4	69,8	77,1	82,3	65	71	79	82	86	94	101	103,9	112,8	139,8	147	154,2	164,6
<b>H</b> Heating capacity	kW	265	317	399	440	469	333	358	401	422	442	486	529	584	634	798	839	879	939
Sound pressure levels (1)	dB(A)	61	62	64	65	65	62	62	63	63	63	64	64	65	66	67	68	68	68

**C** Chiller **H** Heat pump

(1) Sound pressure level along the longitudinal axis at 10m distance from unit surface and 1m height from the ground.



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